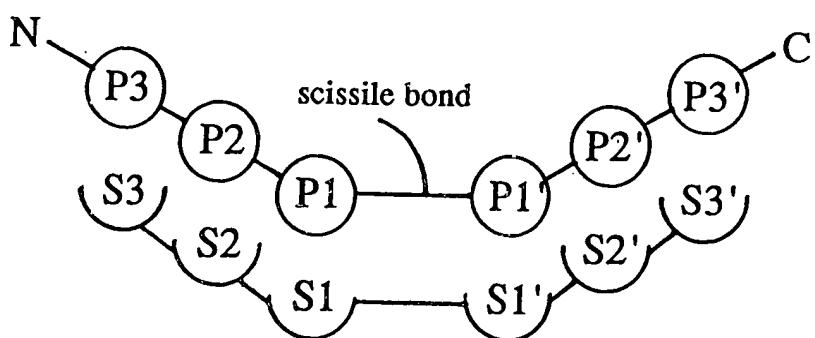




Title: Tryptase Substrates and Assay for  
Tryptase Activity Using Same  
Applicant: NILES et al.  
Serial No: 09/955,639  
Atty. Docket No.: 34506.115

## THE SHECTER & BERGER NOMENCLATURE

Substrate  
Enzyme



**Fig. 1**

Human  $\beta$ -I Tryptase  
P1-Diverse Library Ac-X4-ACC

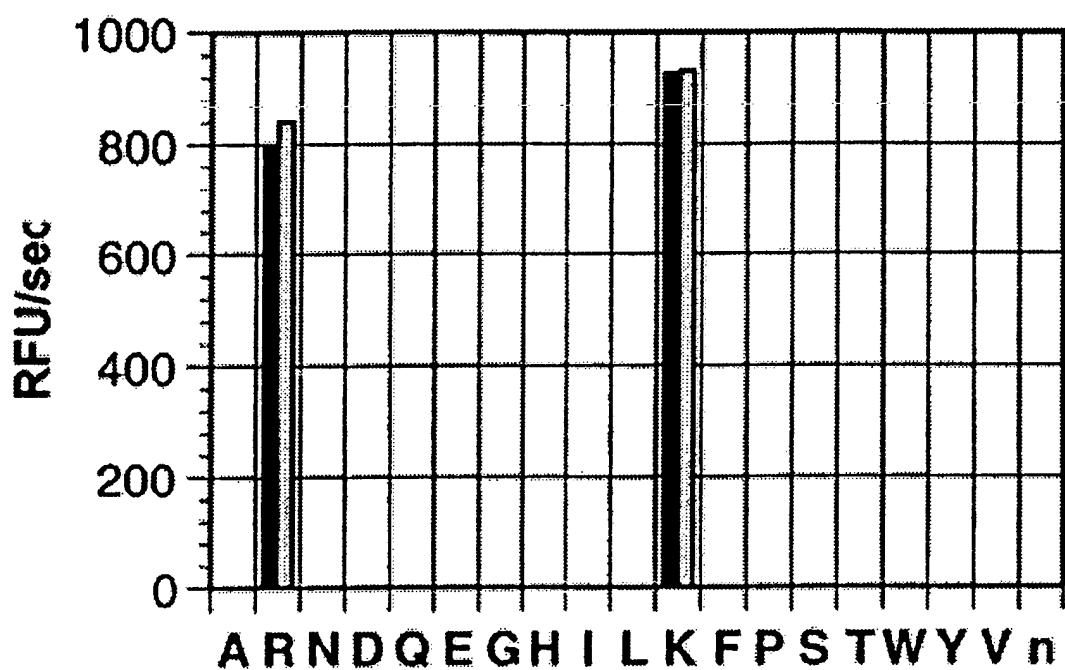
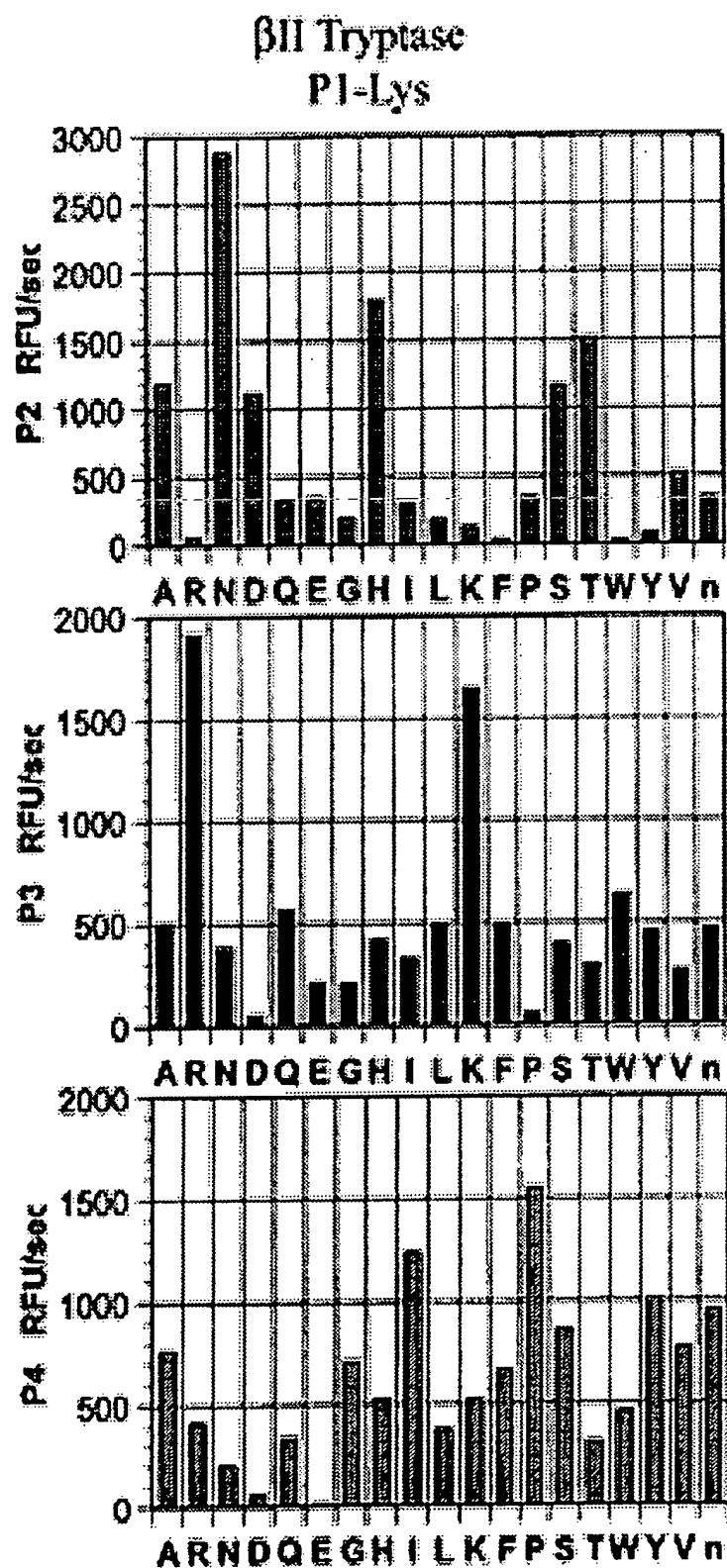
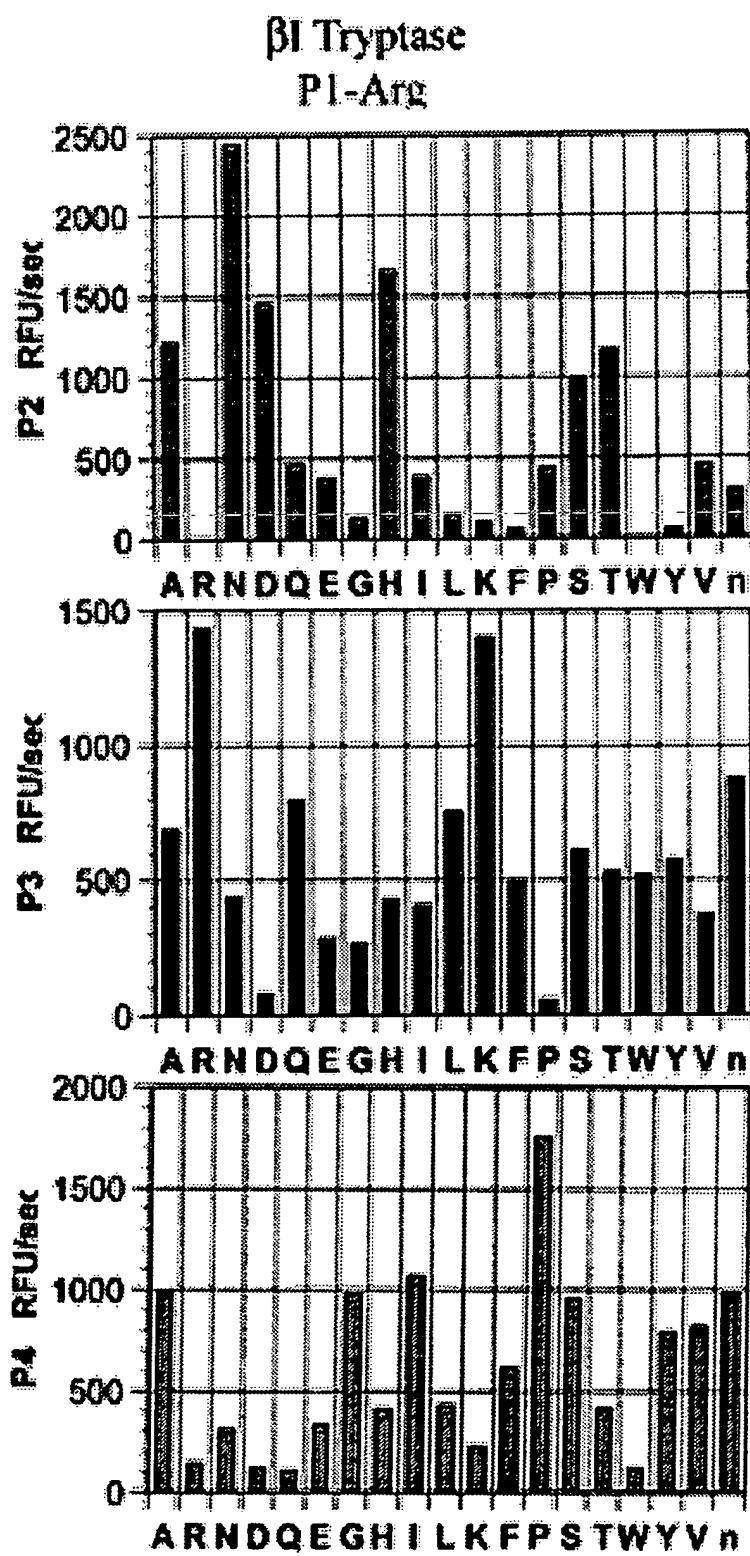


Fig. 2



**Fig. 3a**



**Fig. 3b**

$\beta$ 1 Tryptase

PI-Lys

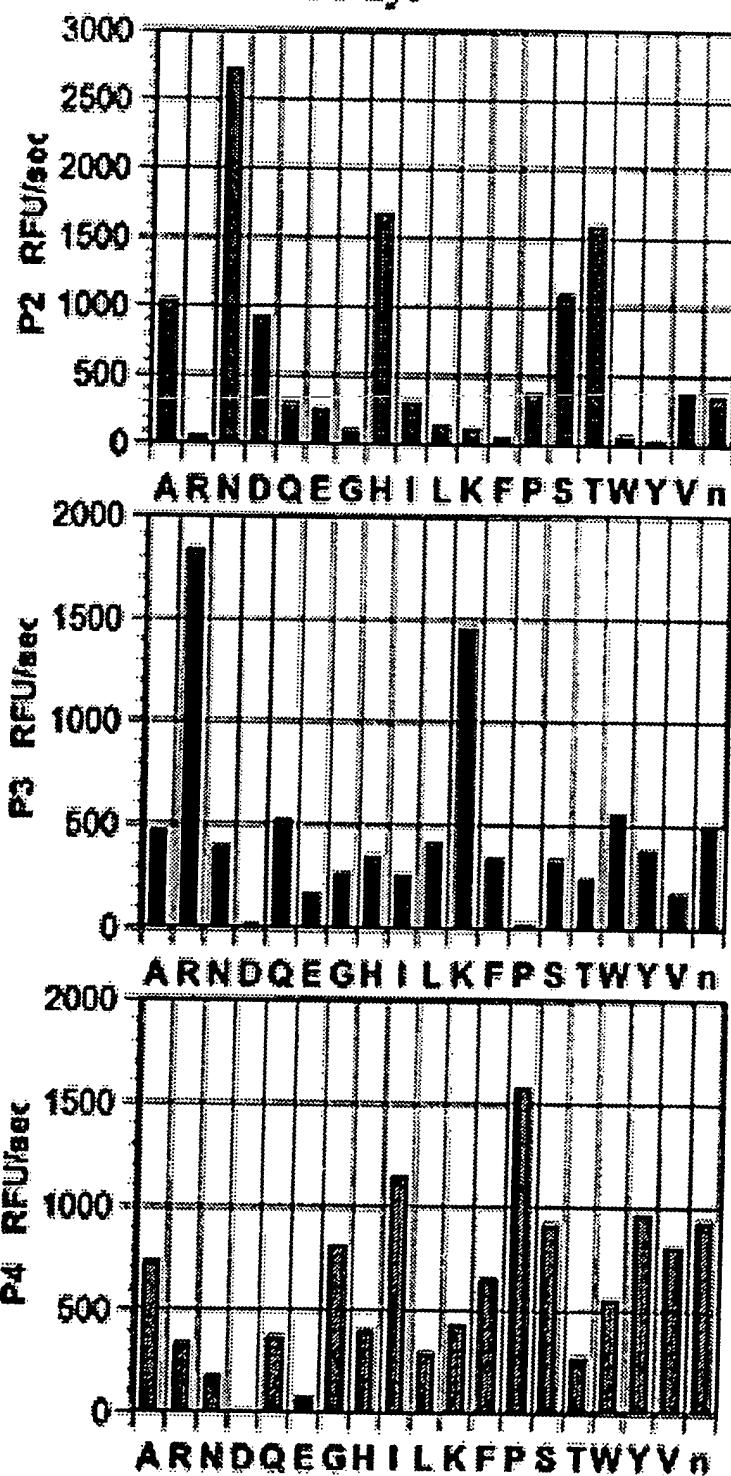
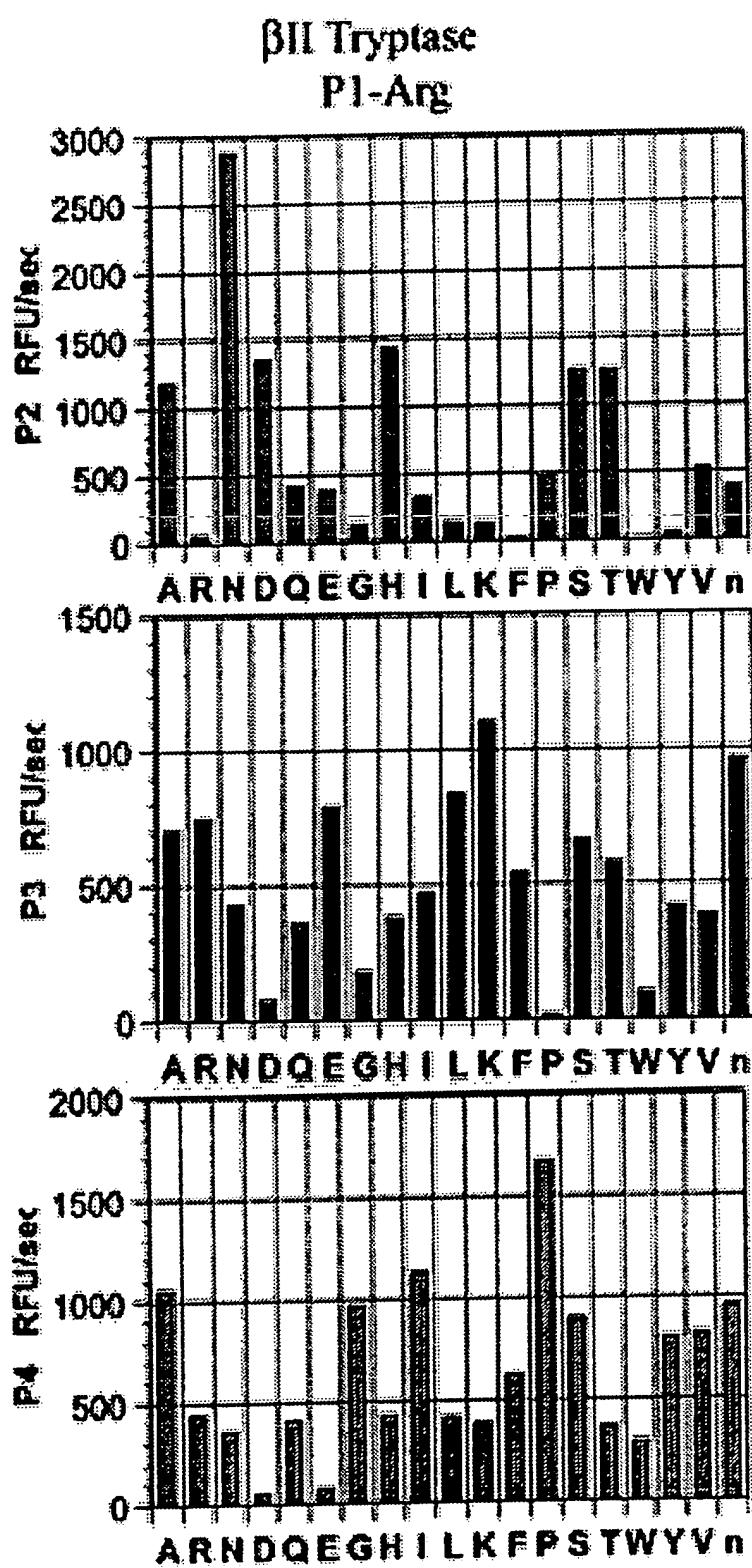
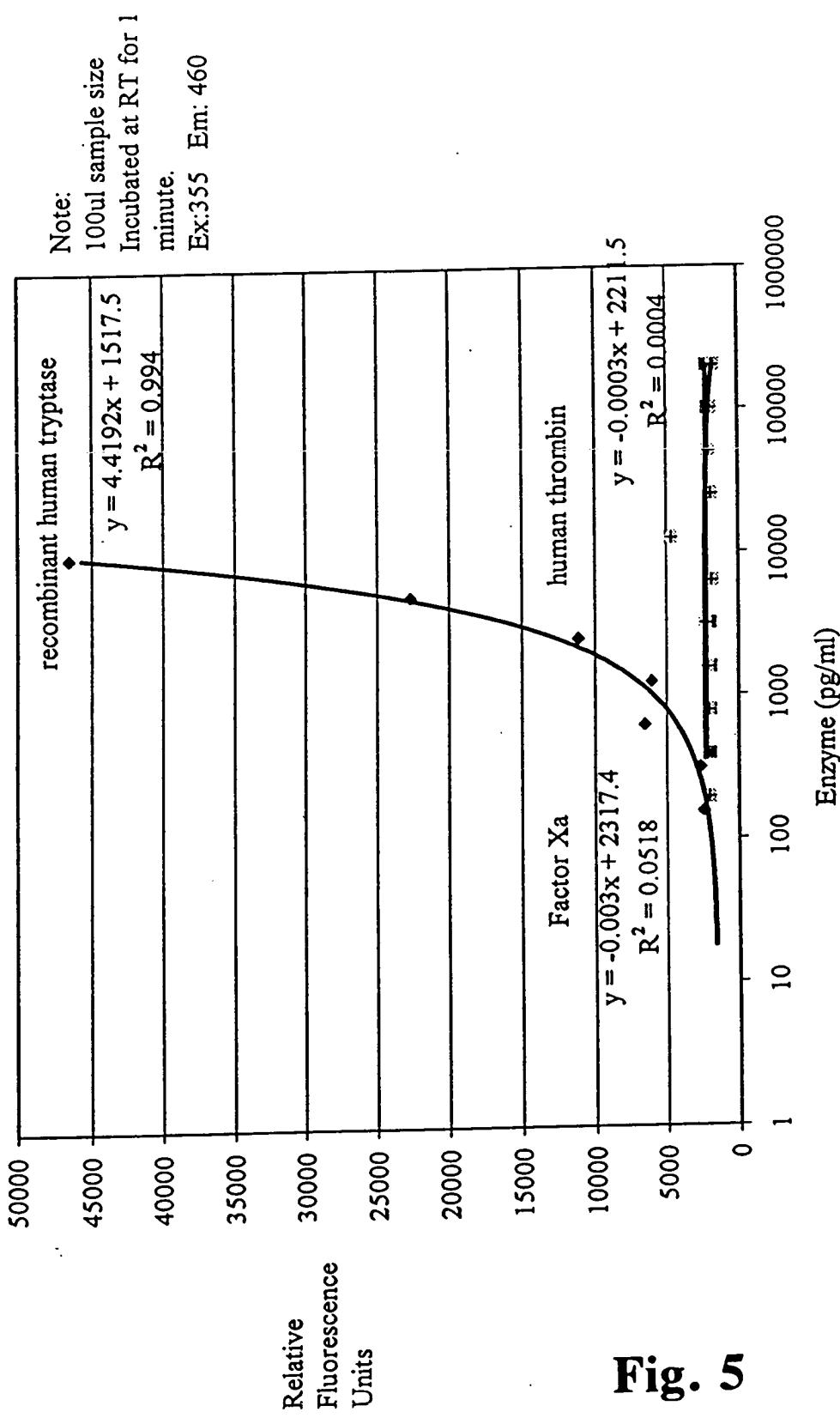


Fig. 4a



**Fig. 4b**

Ac-PRNK-ACC as an Optimized Tryptase Substrate  
(Tryptase v. Factor Xa v. Human thrombin)



**Fig. 5**

Fluorometric Tryptase Activity Assay Using Ac-PRNK-ACC in Spiked Assay Buffer

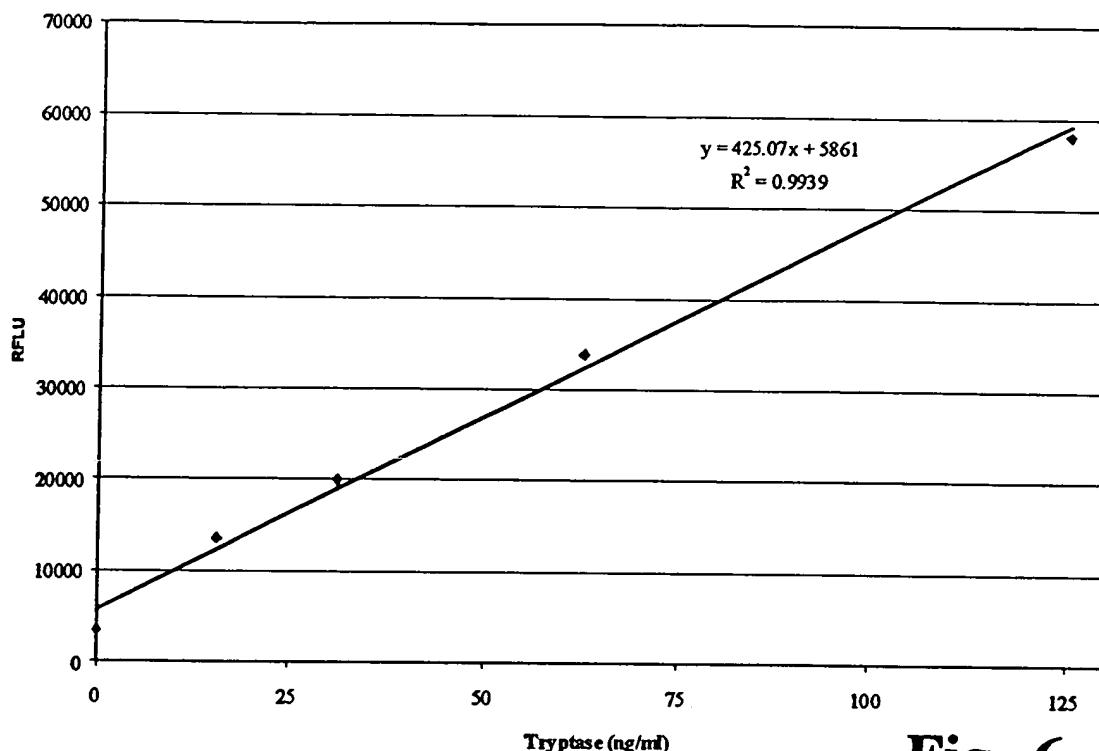


Fig. 6

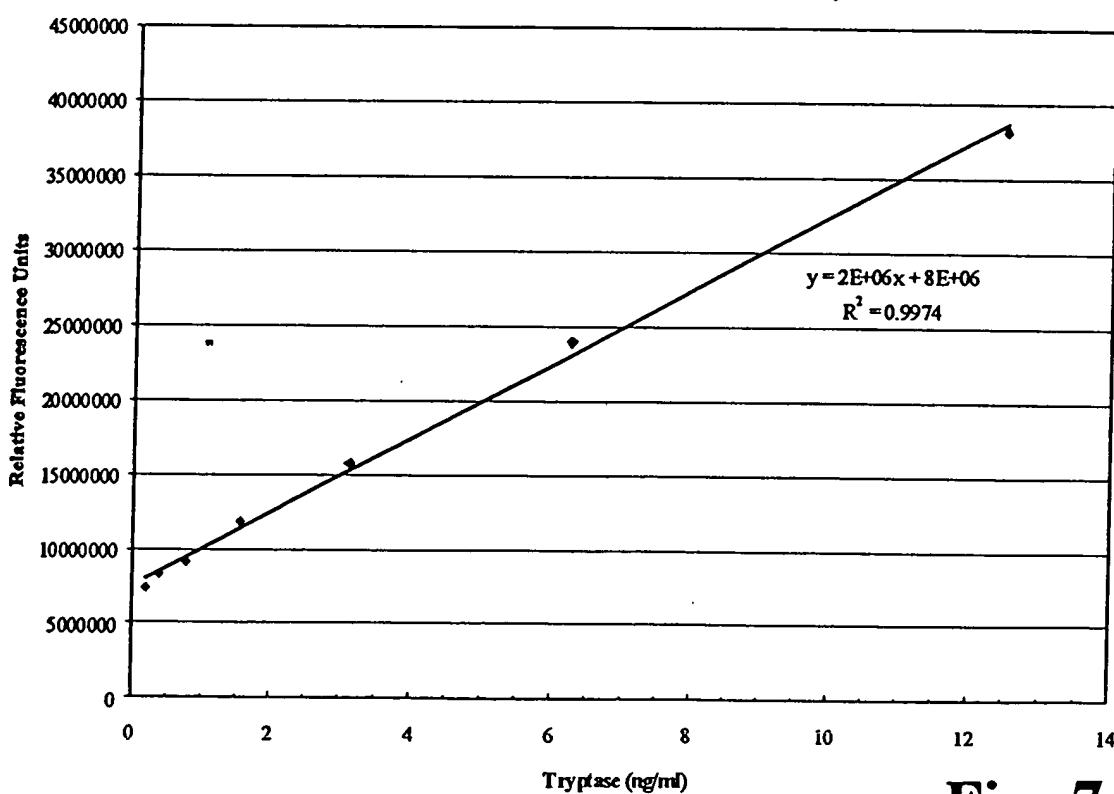


Fig. 7

Use of Ac-PRNK-ACC as a Fluorometric Tryptase Substrate

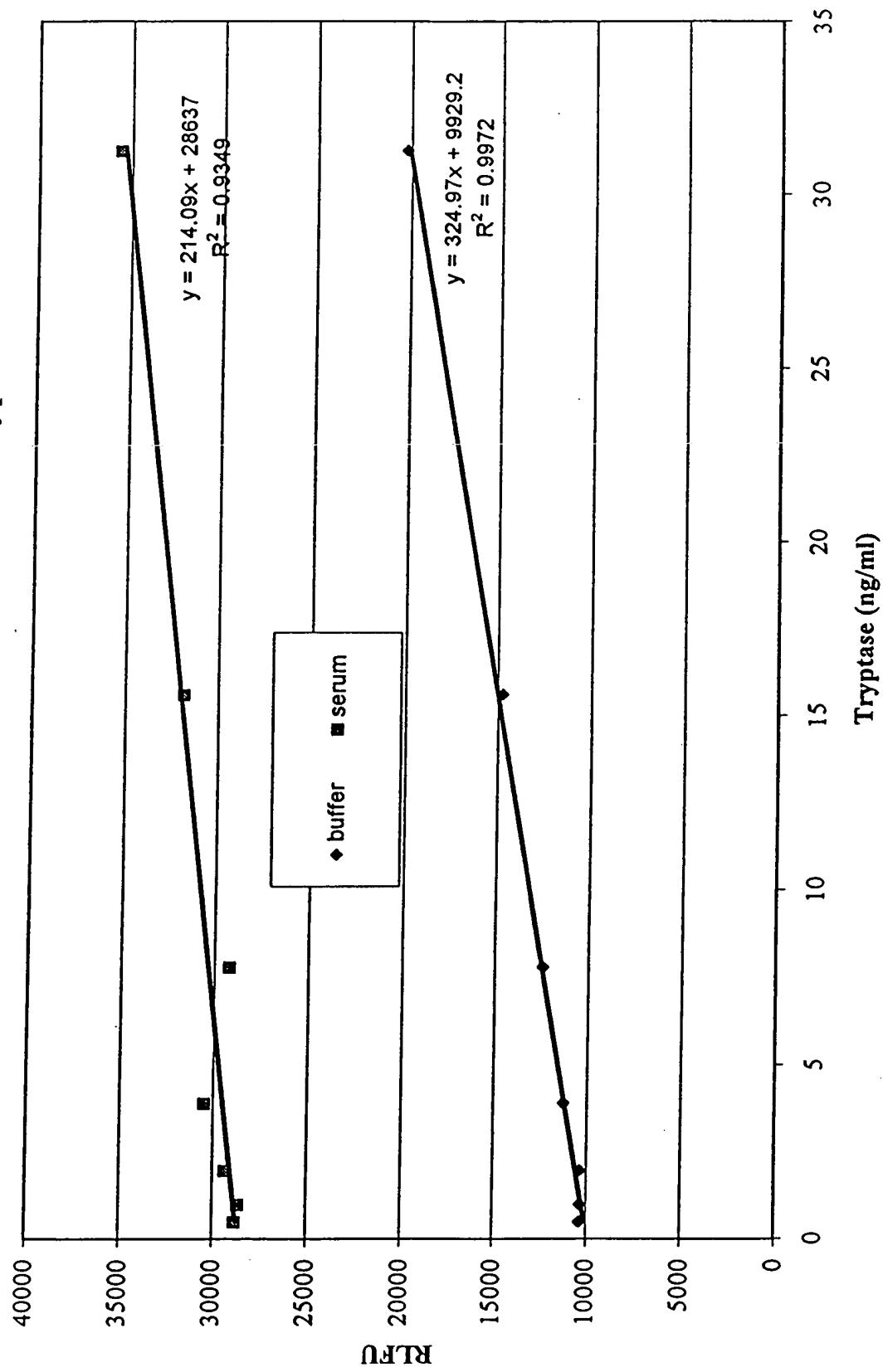


Fig. 8

Exogenously Added Protease Inhibitors:  
Effects on Ac-PRNK-ACC based Tryptase Activity Assay

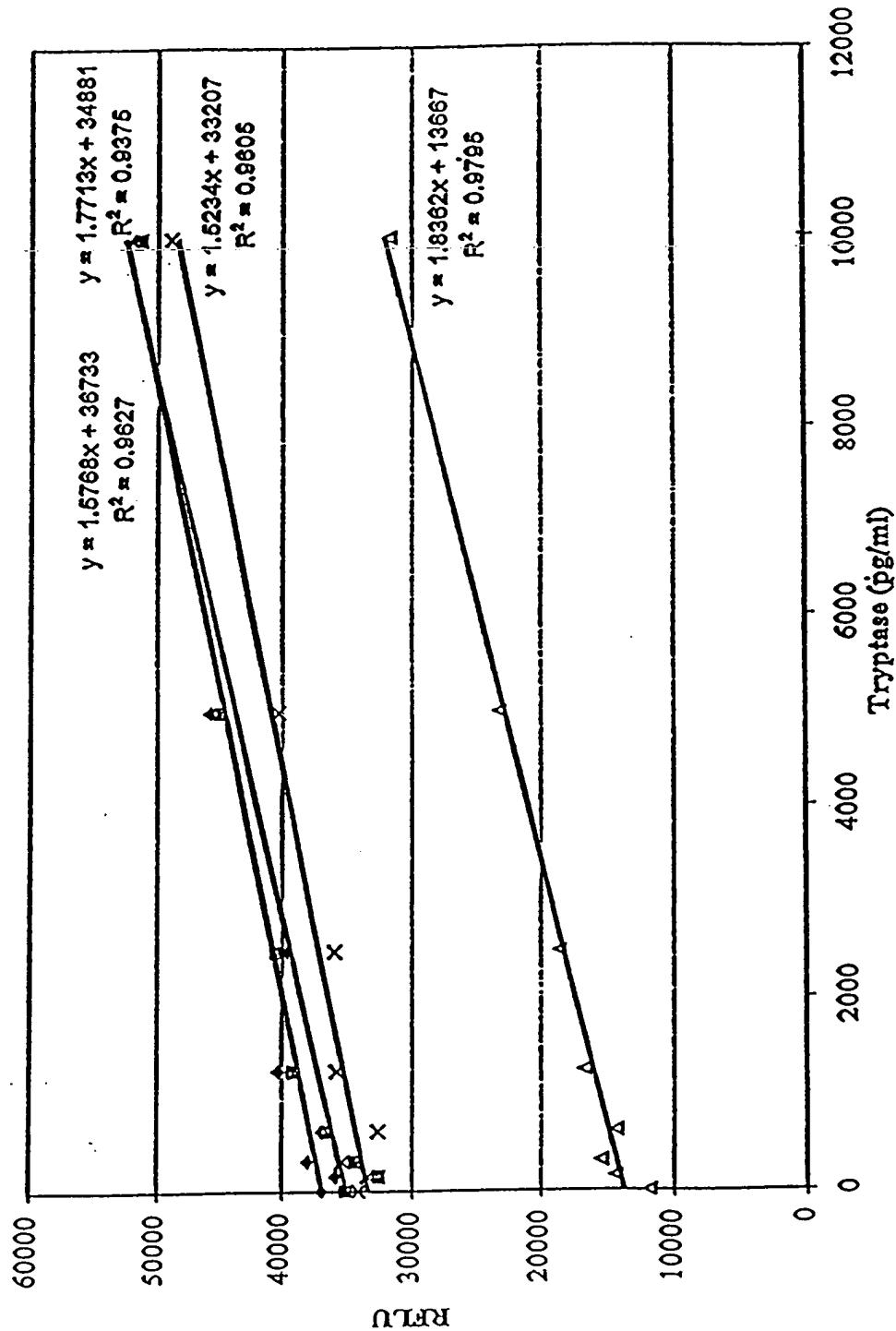


Fig. 9

Aprotinin Treated, Tryptase Standard Curves  
(Serum v. Buffer)

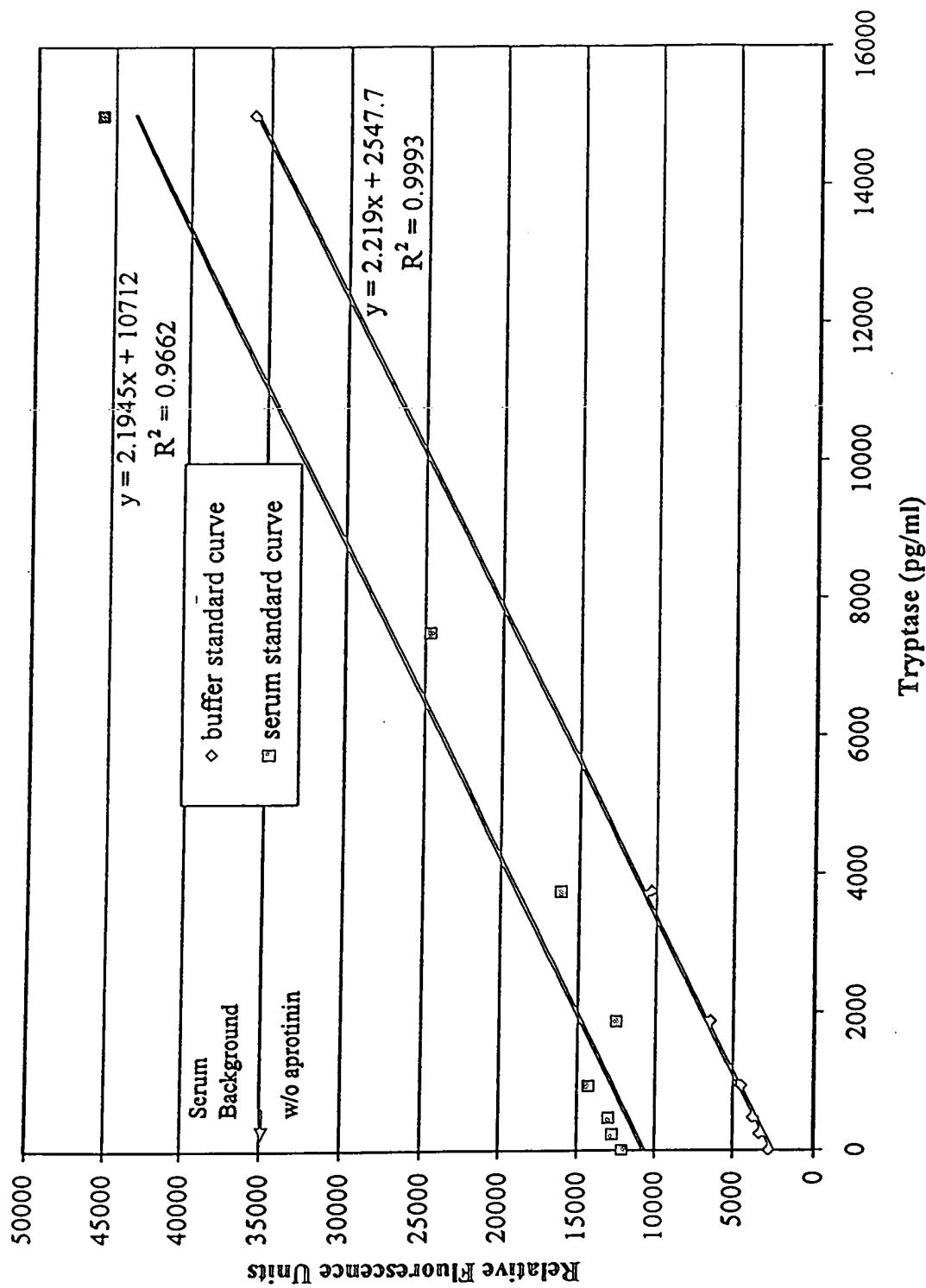


Fig. 10

Tryptase Quantitation in Urine  
(Aprotonin Treated v. Uninhibited Samples)

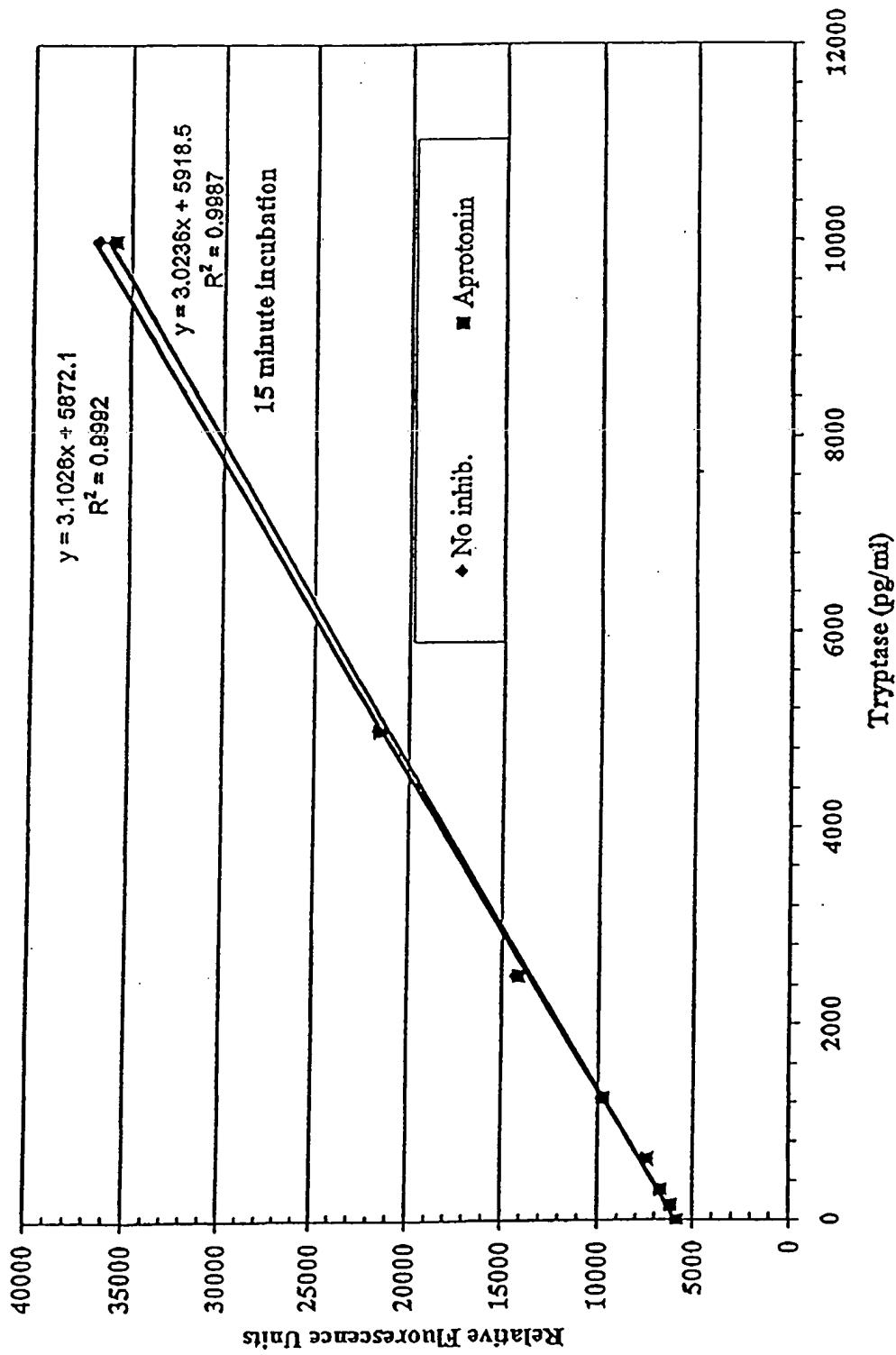
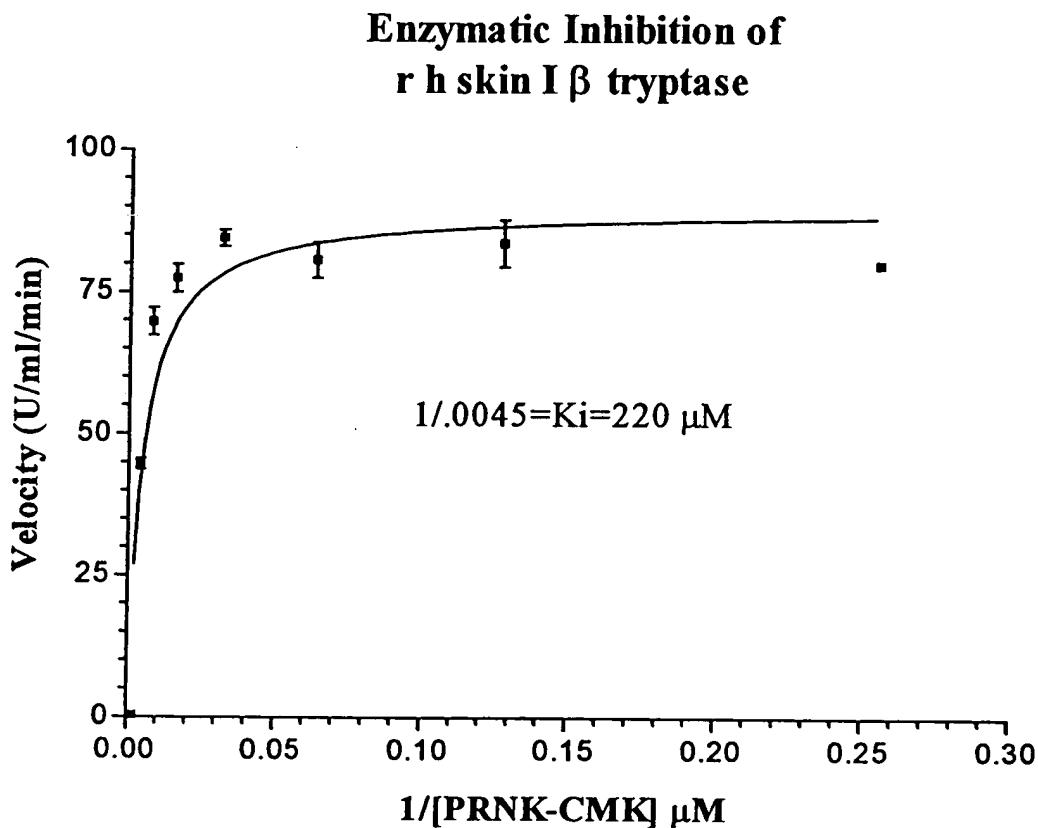
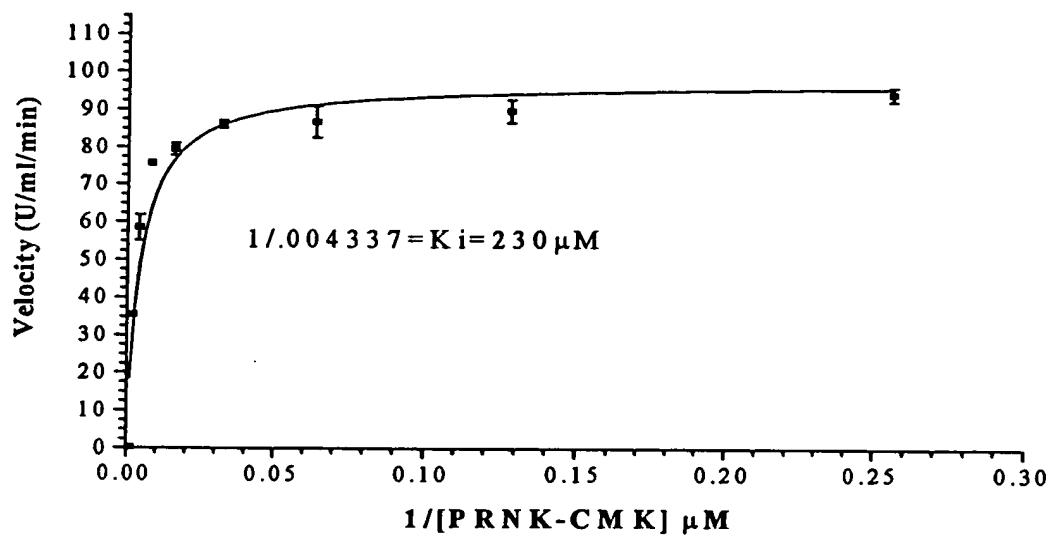


Fig. 11



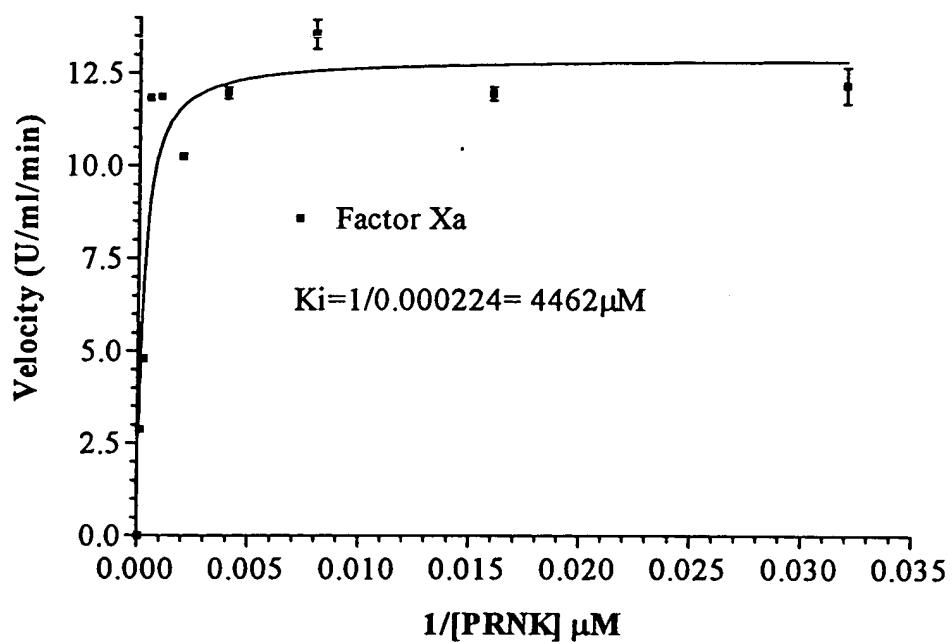
**Fig. 12**

**Enzymatic Inhibition of r hu lung  $\beta$  tryptase  
by PRNK-CMK**



**Fig. 13**

**Enzymatic Inhibition of Factor Xa  
by PRNK-CMK**



**Fig. 14**